

Creation date: 04-28-15

Revision date: 12-17-20

Revision number: 1.1

Section I - Product Identification

Product: This product is an auramine O stain consisting of auramine, phenol, glycerine and isopropyl alcohol in water.

Intended Uses: Auramine O staining solution is used for demonstrating acid fastness in acid fast bacteria.

Uses advised against: This product should be used by trained laboratory professionals.

Manufacturer Identification

Medical Chemical Corp.
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Torrance, CA 90501

Customer Service: Phone (310)787-6800
Email: Christinaavena@med-chem.com
FAX (310)787-4464

Emergency Telephone Number

CHEMTREC Emergency Response Telephone Number: (800)424-9300. Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.



Section II - Hazard Identification

This item is considered hazardous by 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquid: Category 3 (H226). Flammable liquid and vapor.

Eye damage/eye irritation: Category 2A (H319). Causes serious eye irritation.

Acute toxicity (Oral): Category 4 (H302). Harmful if swallowed.

Acute toxicity (Inhalation): Category 4 (H333). May be harmful if inhaled.

Acute toxicity (Dermal): Category 4 (H312). Harmful in contact with skin.

Skin corrosion: 1B (H315). Causes skin irritation

Carcinogenicity: Category 2 (H351). Suspected of causing cancer.

Mutagen: 2 (H341). Suspected of causing genetic defects.

Signal word: Warning

Hazard statements: Flammable liquid and vapor. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Keep container tightly closed. Use only non-sparking tools. Take precautions against static discharge. Wear protective clothes and eye protection. In case of skin contact immediately remove all contaminated clothing. Rinse with water or shower. In case of fire, use fire extinguishers approved for alcohol fires. Phenol and methanol are toxic by inhalation, absorption or ingestion. Suspected of causing genetic defects.

Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P405 Store locked up.

Safety Ratings

Health: Hazardous **Flammability:** Flammable **Reactivity:** None **Contact:** Slight
Recommended safety equipment: safety goggles, lab coat and proper gloves

NFPA Ratings

Health = 2 Flammability = 2 Reactivity = 0

Potential Health Effects

The toxicology of this solution has not been completely examined. It is presumed that the toxicity of this item is similar to that of other solutions of diphenylmethane dyes. Auramine O is a suspected carcinogen.

Inhalation: Alcohols are absorbed through the mucous membranes and will produce irritation as well as the same effects as ingestion. Phenol is toxic by inhalation.

Ingestion: Ingestion will produce CNS disturbance, dizziness, photophobia, headache, stupor, coma and death. Phenol is toxic by ingestion.

Skin contact: Alcohols are absorbed through the skin. Repeated contact causes defatting of the skin with resultant irritation and flaking. Phenol is corrosive to skin.

Eye contact: May be irritating. Phenol can cause severe eye damage

Chronic Exposure: Unknown.

Aggravation of preexisting conditions: Impaired kidney and liver function may be aggravated by exposure to alcohols. Preexisting eye, skin, and respiratory conditions may also be aggravated.

Section III - Composition/Information on Components

Ingredients	CAS#	EC List Number	%
Isopropanol	67-63-0	200-661-7	10% w/v
Glycerine	56-81-5	200-289-5	15% w/v
Phenol	108-95-2	203-632-7	3% w/v
Auramine O	2465-27-2	219-567-2	0.1% w/v

Section IV - First Aid Measures

General Advice: Contact a doctor if symptoms persist

Inhalation: Remove from source of exposure and get medical attention for any breathing difficulty.

Ingestion: Do not induce vomiting. Aspiration of alcohol into the lungs may produce death. Get immediate medical attention even if symptoms improve.

Skin Contact: In case of skin contact, remove contaminated clothing and flush with water. Wash affected area with soap and water. Get medical advice if irritation develops. Phenol causes skin lesions that are slow to heal.

Eye Contact: In case of eye contact, flush with water for at least 15 minutes and get medical attention.

Section V - Fire Fighting Measures

Fire Extinguishing Media: Alcohol foam, carbon dioxide or dry chemical. Water is ineffective against alcohol fires but may be used to cool adjacent containers.

Flash point: 95 °C (203 °F) TCC

Flammable Limits (for isopropanol): LEL 2% UEL 12%

Specific Hazards: Risk of vapor traveling to source of ignition and flashing back. Risk of exploding containers when heated. Vapor in air may form explosion risk.

Special information: Pyrolysis will release toxic carbon monoxide, formaldehyde and methanol.

Special protective gear and precautions: Self contained breathing apparatus and protective gear recommended.

Section VI - Accidental Release Measures

Use personal protective gear, remove all sources of ignition, absorb with a suitable absorbent and dispose. Take precautions against static ignition. Should not be released into the environment.

Section VII - Handling and Storage

P403+P233+P102; Store in a well-ventilated place. Keep container tightly closed. Store away from open flames or other sources of ignition. Keep out of the reach of children.

Section VIII - Exposure Control/Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerine	10 mg/m ³ (TWA)	15 mg/m ³	Not Listed
Isopropanol	400 ppm	400 ppm	2000 ppm
Phenol	5 ppm (TWA)	19 mg/m ³ (TWA)	250 ppm
Auramine O	Not listed	Not listed	Not listed

Legend

ACGIH: American Conference of Governmental Industrial Hygienists.

OSHA: Occupational Safety and Health Administration.

NIOSH: National Institute for Occupational Safety and Health.

IDLH: Immediately dangerous to life or health.

Ventilation System: Local exhaust such as explosion proof chemical fume hoods are recommended. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

Personal Respirator: Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

Skin protection: Protective gloves are recommended as part of good laboratory practice.

Eye Protection: Laboratory safety goggles or similar products are recommended as part of good laboratory practice.

Section IX - Physical and Chemical Properties

Boiling Point: 212 °F (100 °C)

Vapor pressure (mm Hg): No data

Vapor Density (air = 1): No data

Appearance and Odor: An orange liquid with a sickening sweet smell (phenol).

Density: 1.03 g/ml @ 22.5 °C

Evaporation Rate (Water = 1): 1

Solubility: Miscible with water

Section X - Stability and Reactivity

Stability: Stable under normal conditions.

Hazardous Decomposition Products: Nothing unusual.

Hazardous polymerization: Will not occur.

Incompatibilities: Heat and light.

Conditions to avoid: heat, flame and sources of ignition.

Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycerine	12.6 g/kg (Rat)	10 g/kg (Rabbit)	(Mist) 570 mg/m ³ 1 h (Rat)
Isopropanol	>4700 mg/kg (Rat)	13,000 mg/kg (Rabbit)	19,000 ppm/8h (Rat)
Phenol	317 mg/kg (Rat)	630 mg/kg (Rabbit)	900 mg/m ³ /8h (Rat)
Auramine O	480 mg/kg (Mouse)	No data	No data

Cancer lists

Ingredient Known Carcinogenicity? NTP? Anticipated? IARC Category

Glycerine	No	No	No	None
Isopropanol	No	No	No	3
Phenol	No	No	No	None
Auramine O	No	No	yes	2B

Section XII - Ecological Information

Aliphatic alcohols evaporate quickly and are not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption. The half-life for ethanol in the atmosphere is one to ten days.

Environmental Fate: Biodegradable
Soil Mobility: Unknown

Environmental Toxicity: (H411) Toxic to aquatic life with long lasting effects.

Component	Freshwater Fish	Water Flea	Freshwater algae
Glycerine	LC50 59 ppm 96 h	No data	No data
Isopropanol	LC50 9640 mg/l 96 h	EC50 7550 mg/l 48 h	EC50 1000 mg/l 72 h
Phenol	LC50 25 mg/l 48 h	EC50 12 mg/l 24 h	EC50 370 mg/l 96 h
Auramine O	LC50 3.2 mg/l 48 h	No data	No data

Section XIII - Disposal Considerations

Incineration at a licensed chemical disposal facility is the preferred disposal method. Local governments often restrict the amounts of alcohol and other flammable liquids that may be flushed down the drain. They also restrict the amount of phenol that may be introduced into the environment. Dispose of contents and container in accord with all applicable regulations.

Section XIV - Transportation Information

Not regulated.

Section XV - Regulatory Information

Chemical Inventory Status


Ingredient	TSCA	EC
Glycerine	Yes	Yes
Isopropanol	Yes	Yes
Phenol	Yes	Yes
Auramine O	Yes	Yes

Federal and State Regulations

Ingredient	SARA 302		SARA 313		RCRA	TSCA	Ca. Prop 65
	RQ	TPQ	List	Category	261.33	8(D)	
Isopropanol	No	No	Yes	No	No	No	No
Glycerine	No	No	No	No	No	No	No
Phenol	Yes	Yes	Yes	Yes	No	No	No
Auramine O	No	No	No	No	No	No	Yes

Chemical Weapons Convention: No TSCA 12(b): No CDTA: Yes

SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No Reactivity: No

 This product contains auramine O which is known to the state of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

Section XVI - Other Information

This information is believed to be correct at the time of publication but is not guaranteed as such, nor does it purport to be all inclusive. Medical Chemical Corp. assumes no liability for the accuracy or completeness of the information. The user assumes all responsibility for compliance with federal, state and local laws.

Document Number: S023
Revision number: 1.1
Revision Date: Dec. 17, 2020